	Application No.	Applicant(s)
Notice of Allowability	10/629,543	HA, CHANG JIN
	Examiner	Art Unit
	Hoang-Vu A. Nguyen-Ba	2192
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS therewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in this or other appropriate communications. This application is subject and MPEP 1308.	s application. If not included ation will be mailed in due course. THIS
1. This communication is responsive to <u>Amendment filed 6/13/06</u> .		
2. X The allowed claim(s) is/are <u>1,6-9,11-18, 20-23and 26-27</u> .		
 Acknowledgment is made of a claim for foreign priority unally all b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	e been received e been received in Application N	o
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		eply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv		
CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in 6. ☐ DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT.	son's Patent Drawing Review (F - 's Amendment / Comment or in t 1.84(c)) should be written on the d the header according to 37 CFR 1.	he Office action of rawings in the front (not the back) of 121(d). AL must be submitted. Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 2/15/06 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Sumr Paper No./Mai 7. ☑ Examiner's Am 8. ☑ Examiner's Sta	I Date
		ANTONY NGUYEN-BA PRIMARY EXAMINER

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Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in telephone interviews with Attorney Samuel Ntiros, on September 20, 25 and 26, 2006.

The application has been amended as follows:

In the Claims:

1. (Currently Amended) An apparatus for recording firmware in a computer system, comprising:

a first memory divided into at least two blocks that store different system programs, a second block of said at least two blocks further storing a recovery program for performing a firmware recovery operation; and

a second memory that temporarily stores the recovery program when received from the second block when a first block of said at least two blocks has a failure, the recovery program performing said operation to selectively update firmware in the <u>first second</u> block of the first memory,

wherein the first memory is a ROM that includes a main block which corresponds to the first block and an auxiliary block which corresponds to the second block, the main block storing the firmware for operating the system and the auxiliary block comprising at least one system recovery function routine firmware, and wherein the firmware stored in the auxiliary block is at least one of a Power On Self Test (POST), a Power On or a Flash routine for recovering the system.

2-5 (Canceled)

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7. (Currently Amended) An apparatus for recording firmware in a portable computer system, comprising:

a micro-controller; and

a first memory coupled to the micro-controller that is divided into first and second blocks, wherein the first and second blocks store different system programs and wherein the second block further stores a recovery program for performing a firmware recovery operation, and

wherein the first block stores a program or data for performing general system controller functions and the second block stores a program or data for performing at least one of a Power On Self Test (POST), Power On, or flash routines for the system.

9. (Currently Amended) A method for recording firmware in a computer system, comprising:

dividing an area for storing different system programs into at least two blocks;

recording a first program on a first block; and

recording a second program for selectively updating the first program on a second block, said dividing including:

logically dividing a ROM where firmware is recorded into a main block and an auxiliary block, said area including the ROM, wherein main firmware is recorded on the main block and auxiliary firmware for selectively deleting, recording and updating the main firmware is recorded on the auxiliary block, and

wherein the main block stores a program or data for performing general system controller functions and the auxiliary block stores a program or

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data for performing at least one of a Power On Self Test (POST), Power On, or flash routines for the system.

- 10. (Canceled)
- 11. (Currently Amended) The method according to claim <u>9</u> 10, wherein the ROM stores the system control programs.
- 12. (Currently Amended) The method according to claim 9 10, further comprising:

determining a control block;

loading firmware of the control block to a controller RAM; and selectively blanking and updating a controlled block.

- 19. (Canceled)
- 22. (Currently Amended) A method for recording firmware in a computer system, comprising:

logically dividing a ROM into a main block and an auxiliary block that store different programs;

recording main firmware on the main block;

recording auxiliary firmware for selectively deleting and recording the main firmware on the auxiliary block;

confirming an update command for the firmware recorded on the ROM;

loading a control program for executing the update command to a RAM;

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confirming one of the main block and the auxiliary block as an object block to which new firmware will be recorded; and

deleting the contents of the object block and recording the new firmware thereon, wherein the main block stores a program or data for performing general system controller functions and the auxiliary block stores a program or data for performing at least one of a Power On Self Test (POST), Power On, or flash routines for the system.

- 24. (Canceled)
- 25. (Canceled)

In the Amendment, filed 6/13/06, p. 2 to p. 12: in the header delete "09/750,507" and insert -10/629,543 --

In the Abstract:

at lines 1 and 5: after "in a computer system can" delete "includes" and insert – <u>include</u> –

Examiner's Statement of Reasons for Allowance

- 2. Claims 1, 6-9, 11-18, 20-23 and 26-27 are allowed.
- 3. The following is an examiner's statement of reasons for allowance.

The prior art of record, i.e., U.S. Patent No. 6,442,067 to Chawla et al., and the art made of record, i.e., U.S. Patent No. 5,960,445 to Tamori, whether taken alone or in combination, fail to teach or suggest the following features, when these features are taken in combination with the remaining features of the claim:

wherein the first memory is a ROM that includes a main block which corresponds to the first block and an auxiliary block which corresponds to the second block, the main block storing the

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firmware for operating the system and the auxiliary block comprising at least one system recovery function routine firmware, and wherein the firmware stored in the auxiliary block is at least one of a Power On Self Test (POST), a Power On or a Flash routine for recovering the system (independent claim 1);

wherein the first block stores a program or data for performing general system controller functions and the second block stores a program or data for performing at least one of a Power On Self Test (POST), Power On, or flash routines for the system (independent claim 7);

logically dividing a ROM where firmware is recorded into a main block and an auxiliary block, said area including the ROM, wherein main firmware is recorded on the main block and auxiliary firmware for selectively deleting, recording and updating the main firmware is recorded on the auxiliary block, and

wherein the main block stores a program or data for performing general system controller functions and the auxiliary block stores a program or data for performing at least one of a Power On Self Test (POST), Power On, or flash routines for the system (independent claim 9);

wherein the main block stores a program or data for performing general system controller functions and the auxiliary block stores a program or data for performing at least one of a Power On Self Test (POST), Power On, or flash routines for the system (independent claim 22).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoang-Vu "Antony" Nguyen-Ba whose telephone number is (571) 272-3701. The examiner can normally be reached on Tuesday-Friday from 7:05 am to 5:35 pm.

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If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Tuan Dam can be reached at (571) 272-3695.

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The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 Group receptionist (571) 272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at (866) 217-9197 (toll-free).

ANTONY NGUYEN-BA
PRIMARY EXAMINER

Hraugur Certary drywyeurs

September 26, 2006